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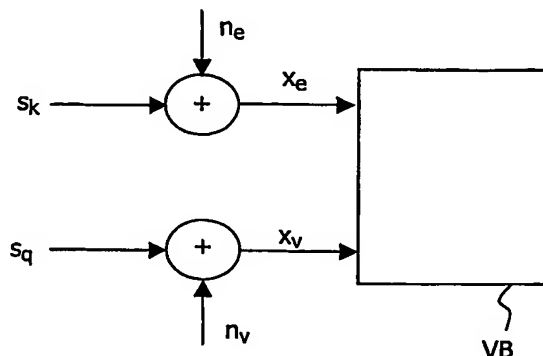
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(54) Title: METHOD AND DEVICE FOR VERIFYING THE IDENTITY OF AN OBJECT



(57) Abstract: The invention applies to the verification of the identity of an object based on measurements of a physical characteristic of said object. In an enrollment phase, an object with known identity is measured. The resulting enrollment measurement is stored for future reference. Then in the verification phase, an object presented for verification is measured, and the verification measurement is compared with the enrollment measurement to decide whether or not the two measurements originate from the same object. According to the invention, the enrollment and the verification measurements are modeled as two realizations of a first random variable affected by an enrollment noise and a verification, noise respectively, said enrollment and verification noises being a realization of a second and a third random variable, respectively, said first, second and third random variables having known distributions.

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